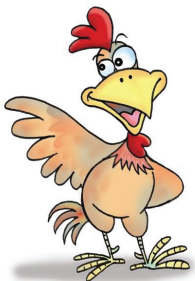
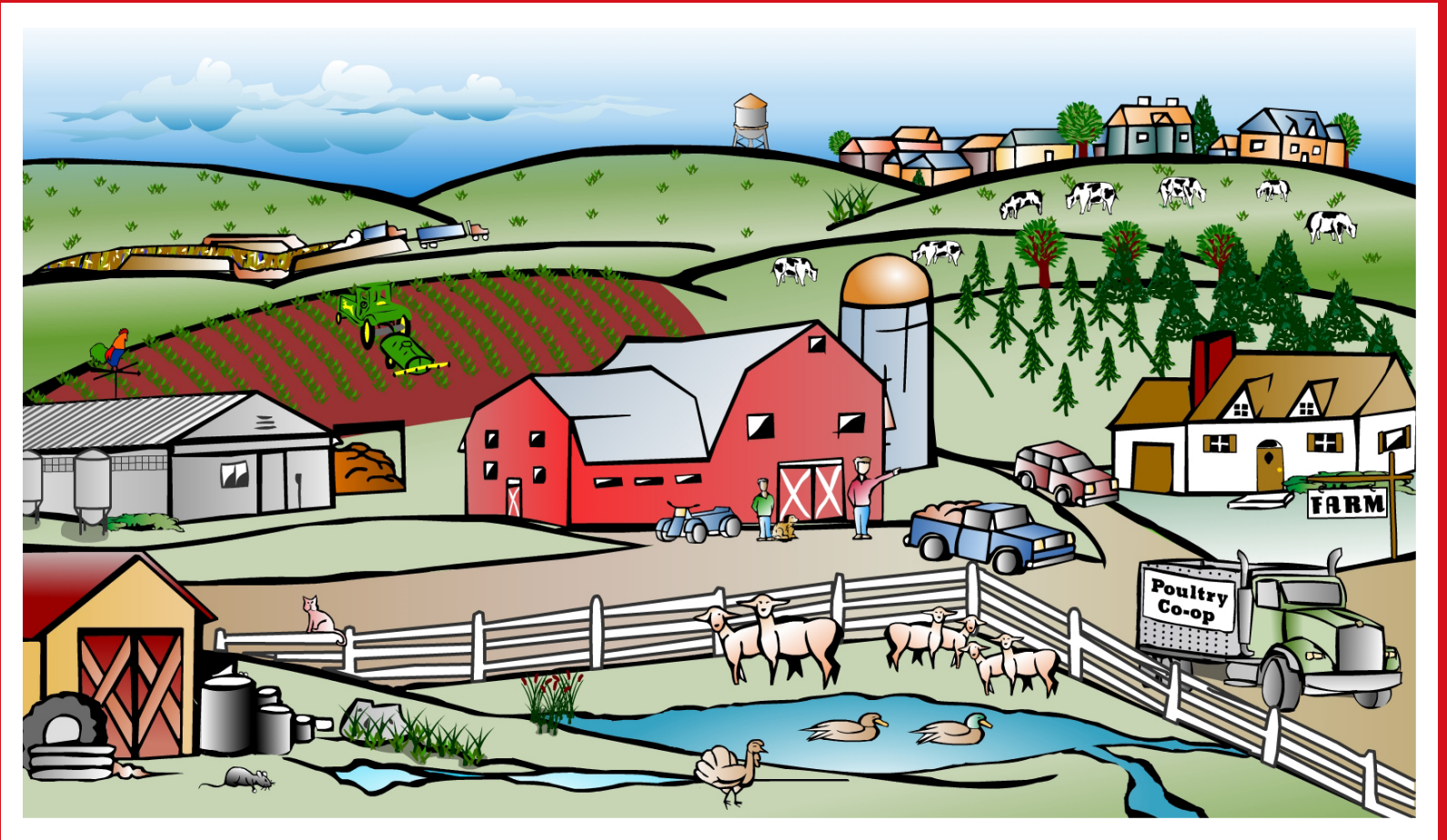


Farm Fun Activity Book





Free Educational Materials on the Internet

Understanding Agricultural Statistics

https://www.nass.usda.gov/Education_and_Outreach/Understanding_Statistics/index.php

Lesson Plans

https://www.nass.usda.gov/Education_and_Outreach/Lesson_Plans/index.php

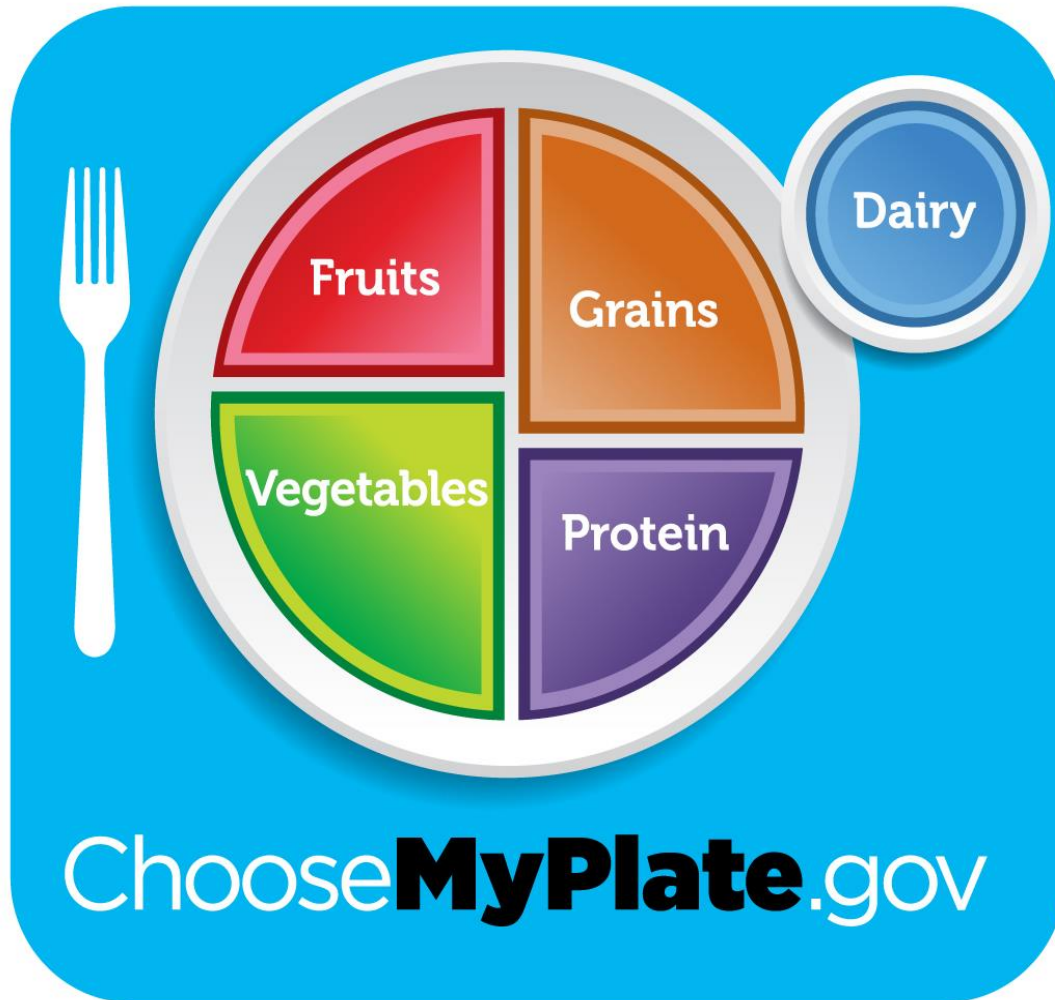
WANT TO KEEP COLORING AND TESTING YOUR AGRICULTURE KNOWLEDGE?

This book is **NOT** copyrighted and you are welcome to make copies as needed.

It is also available from our website where you can print selected pages or the entire book. Have fun!!

http://www.nass.usda.gov/Statistics_by_State/Maryland/Publications/Miscellaneous/md_ag_book.pdf

Maryland Agriculture

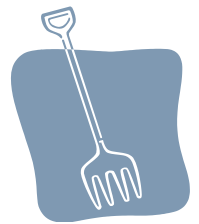
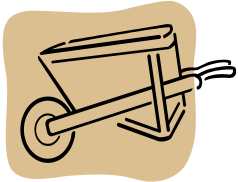


Maryland Agriculture is all around you. Everything you eat comes from agriculture. Agriculture is the production of food and fiber and it is caring for the land, air and water that we all enjoy so much! The seafood, meat and vegetables that you eat are all part of the agricultural world. This activity booklet will help you better understand agriculture and just how important it is to us!

The History of Farming



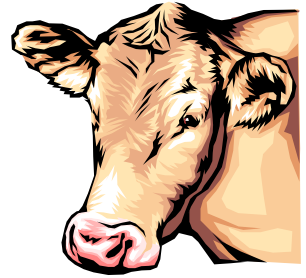
Back in the old days, farmers did not have tractors or any kind of machinery. Everything was done by hand. The first tractor was not built until 1868 and that was powered by steam. Animals were used to operate any type of manual equipment they had, before the invention of tractors. Even cows were milked by hand. Can you imagine milking hundreds of cows twice a day by hand? Think about planting and harvesting without tractors. Horses pulled small implements around to do the job. That is a lot of labor and time for the farmer, especially if there were many acres of land. Today in Maryland, the average farm is nearly 170 acres. Think how long it would have taken in the old days to plant crops, when a horse was pulling a plow.



In this day and age, tractors have air conditioning, radios and high performance electronics. Farming is still a lot of hard work and takes a lot of time and patience, but the way farmers work has completely changed. Some farmers are using computers to keep their records, while others are using special programs to determine what to plant and how much to plant. Most dairy farmers no longer need to milk by hand. They now have automatic milking machines that do all of the work. It is amazing how much has changed in the last 150 years of farming!



GOT MILK?

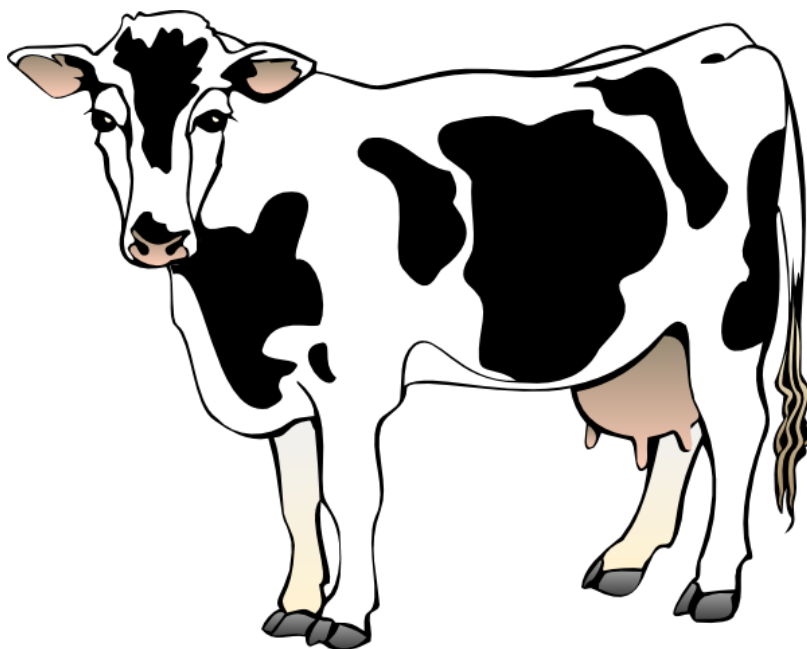


Got Smarts? Quiz

Answer the questions to test your dairy skills. Write **TRUE** or **FALSE** in the blank.

- 1.) _____ A cow has one stomach with four chambers.
- 2.) _____ A brown cow makes chocolate milk.
- 3.) _____ There are more than 200 breeds of cows in the world.
- 4.) _____ A female cow is a bull.
- 5.) _____ Cows spend up to 8 hours per day eating.
- 6.) _____ Cud chewing helps cows to digest their food.
- 7.) _____ Jersey cows are black and white.
- 8.) _____ Milk contains lots of calcium, which will make your bones and teeth healthy and strong.

Maryland has 43,000 dairy cows throughout the state. These cows produce over 878,000,000 pounds of milk each year. Can you imagine that much milk?



WORD SEARCH

N	C	R	E	T	T	U	B	I	S
I	A	R	U	J	K	F	D	Z	K
E	L	S	B	C	M	N	E	L	Z
T	C	A	Y	R	S	H	I	R	E
S	I	G	U	Q	R	M	V	B	P
L	U	T	D	U	C	U	S	U	S
O	M	B	O	D	H	R	D	S	E
H	Y	E	S	R	E	J	I	D	Y
F	G	H	L	O	E	W	C	X	E
Y	R	I	A	D	S	Q	E	I	S
T	P	D	F	N	E	Y	C	D	N
Y	U	C	W	C	X	O	R	W	R
D	Q	O	A	U	D	D	E	R	E
R	R	W	B	L	J	Q	A	C	U
B	P	S	Y	Q	F	D	M	K	G

Ayrshire	cheese	Holstein
Brown Swiss	cows	ice cream
butter	cud	Jersey
calcium	dairy	milk
calf	Guernsey	udder

Did you know?

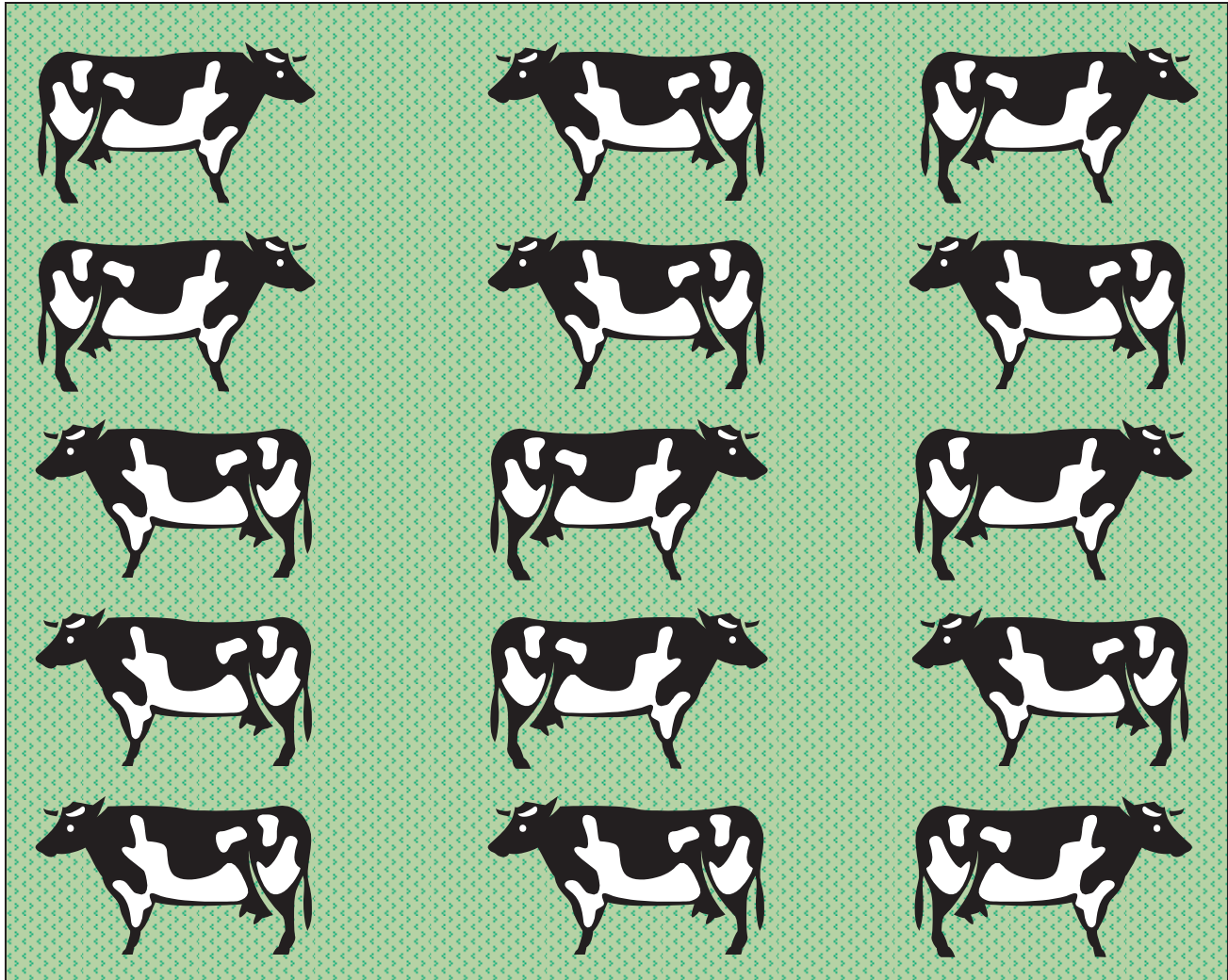
The black and white Holstein cows make up more than 90 percent of the U.S. dairy herd. A cow must have a calf in order to produce milk. The best sources of calcium are milk, yogurt, cheese, and ice cream. The average body temperature of a healthy cow is 101.5 degrees Fahrenheit. Cows have 32 teeth. Cows drink about a bathtub full of water every day!



Can you Spot it?



Which milk cow is different? Circle the different cow.



Maryland dairy farms produce about 153 million dollars in milk sales annually.

COW JOKES

What is the easiest way to count a herd of cattle?

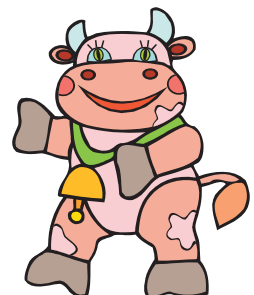
-Use a COWculator!

What kind of things does a farmer talk about when he is milking cows?

-Udder nonsense!

What do you get from a pampered cow?

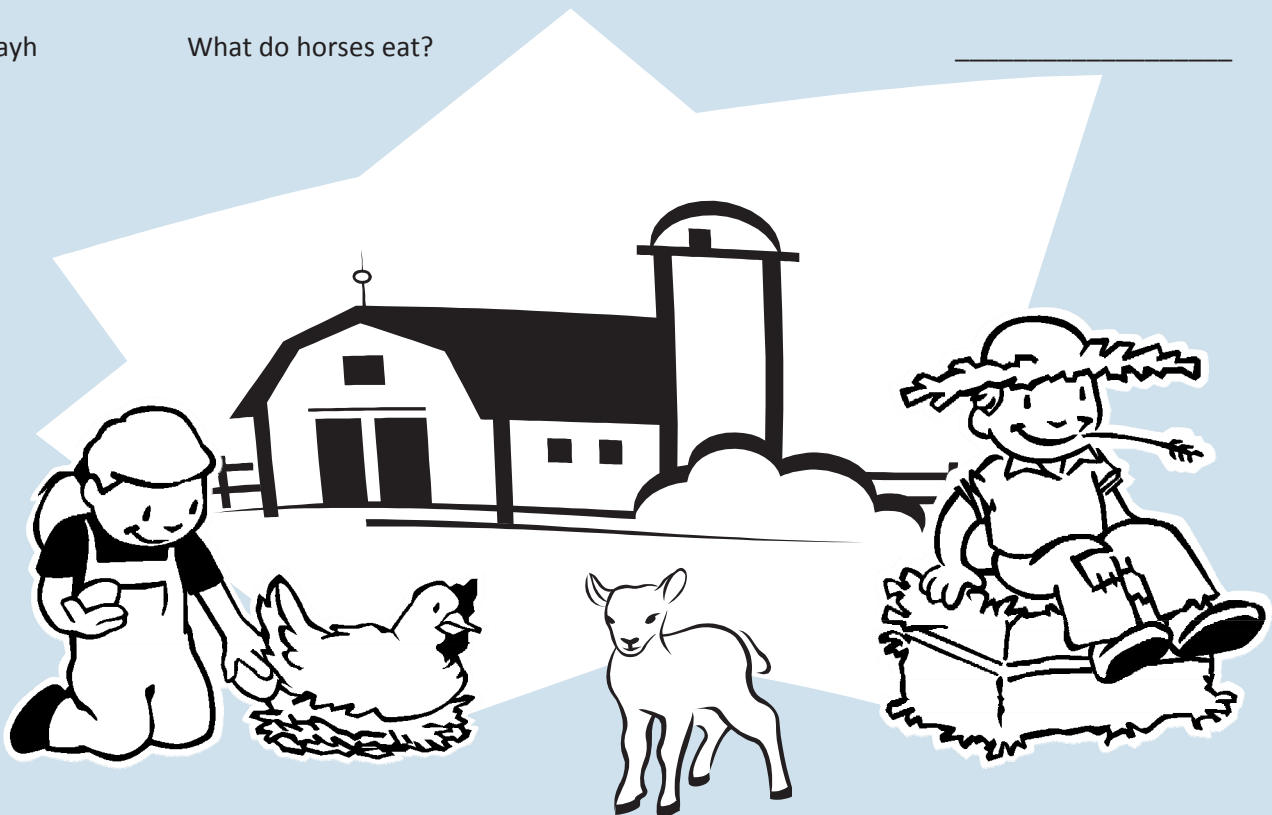
-Spoiled milk!




FARM SCRAMBLE

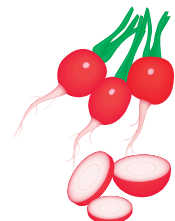
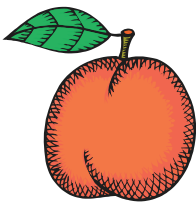
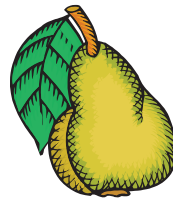
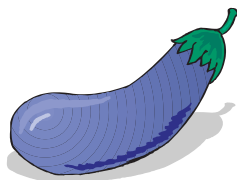
Unscramble the words below to reveal a farm word. Use the clues to help you!

1. scpro What is grown in the fields? _____
2. ranb What do the animals sleep in? _____
3. ecfne How do you keep the animals in the pasture? _____
4. asebnoy Type of round bean. _____
5. kencihc What animal lays eggs? _____
6. armfer Who takes care of the animals? _____
7. rtctaro What do farmers ride that pulls a plow in fields? _____
8. tweah Grain-rhymes with sheet. _____
9. ppeal A red colored fruit; great for eating fresh or cooking. _____
10. ayh What do horses eat? _____



Fruit or Vegetable?

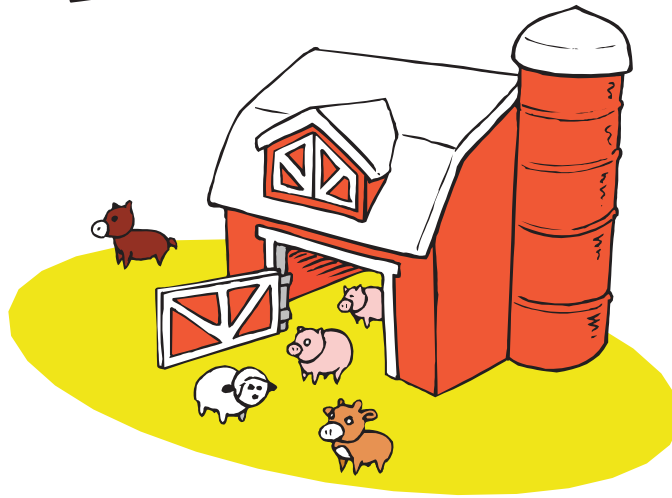
Draw a CIRCLE  around the fruits and draw a SQUARE  around the vegetables.



WHO AM I?

I roll around in mud.

I produce eggs.



1. _____

7. _____

Write the correct animal name on the line provided under each clue.
Animal names may be used more than once.

I am seen in a flock.

● ● ● CLUES ● ● ●

I gallop around in the field.

I produce milk.

2. _____

6. _____

I have a snout for a nose.

4. _____

I have a wooly coat.

3. _____

5. _____

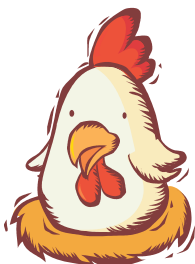
Chicken

Horse

Cow

Pig

Sheep





Connect the Dots



Hint A building used to house livestock or used for storage.

4. • 5

3. •

•6

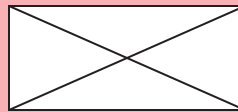
2. ————— •7

10. •

9. •

•11

8. •



20. •

17. •

•16

•13

•12

1. ————— 19. •

18. ————— 15. •

14. •

Egg-xiting Problem Solving



Help Penny find out how many eggs she has in her basket.

1. Penny collected how many eggs at the coop? _____



2. Penny dropped how many eggs on her way home? _____



3. Penny's friend gave her how many eggs? _____

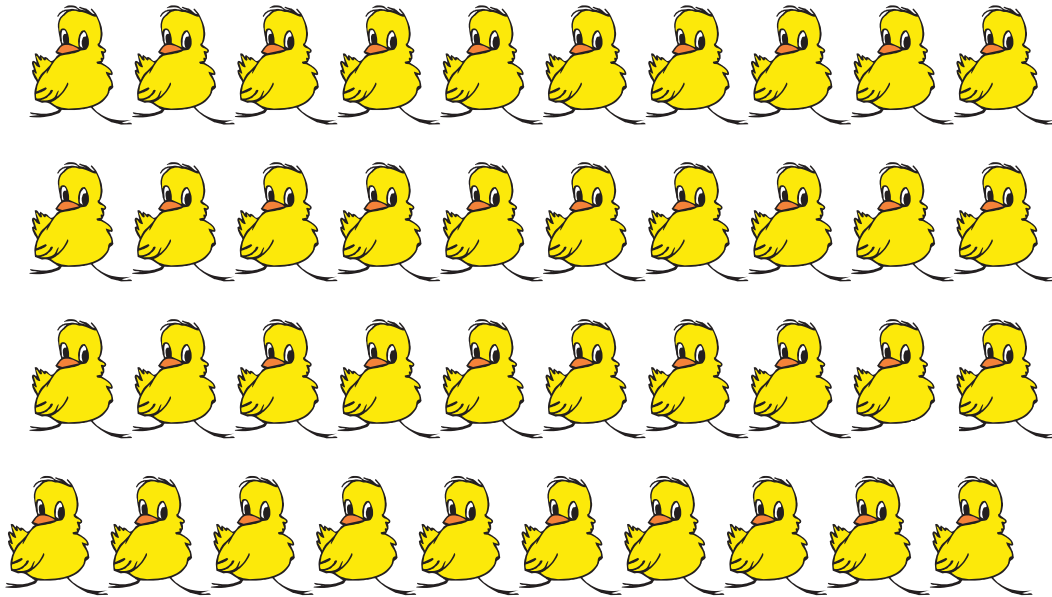


4. How many TOTAL eggs does Penny have in her basket? _____

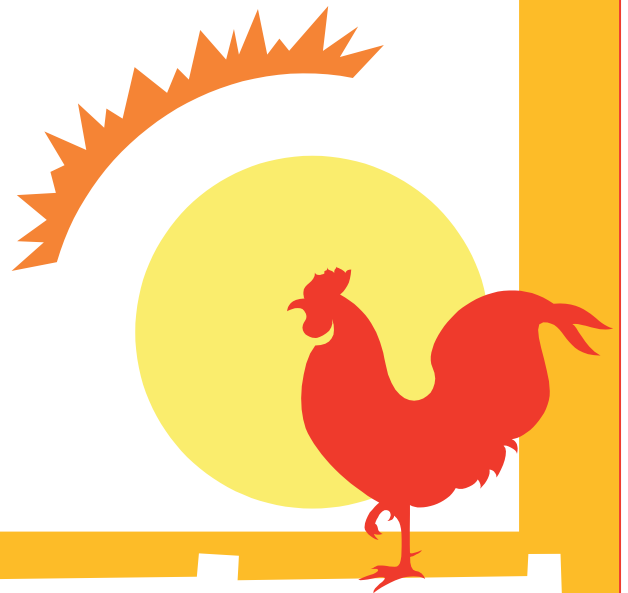


"Chick" this out!

Circle which chicken is different?

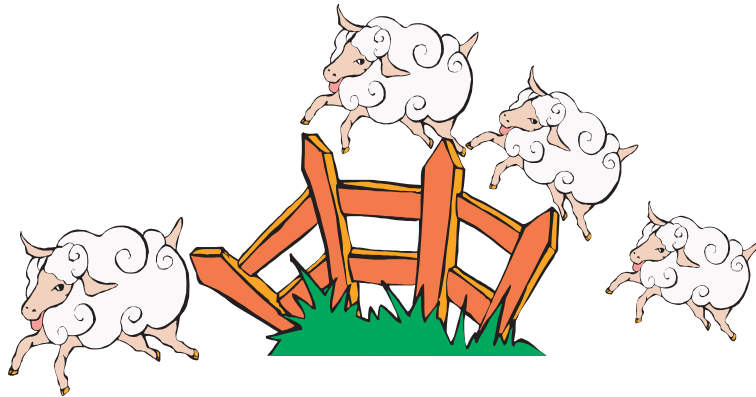


According to the 2017 Census of Agriculture, the poultry and eggs category tops the total market value in the state and ranks 7 in the nation for the number of broilers sold at 307.7 million. Nearly 48 percent of the market value of Maryland agriculture products sold comes from poultry and eggs.

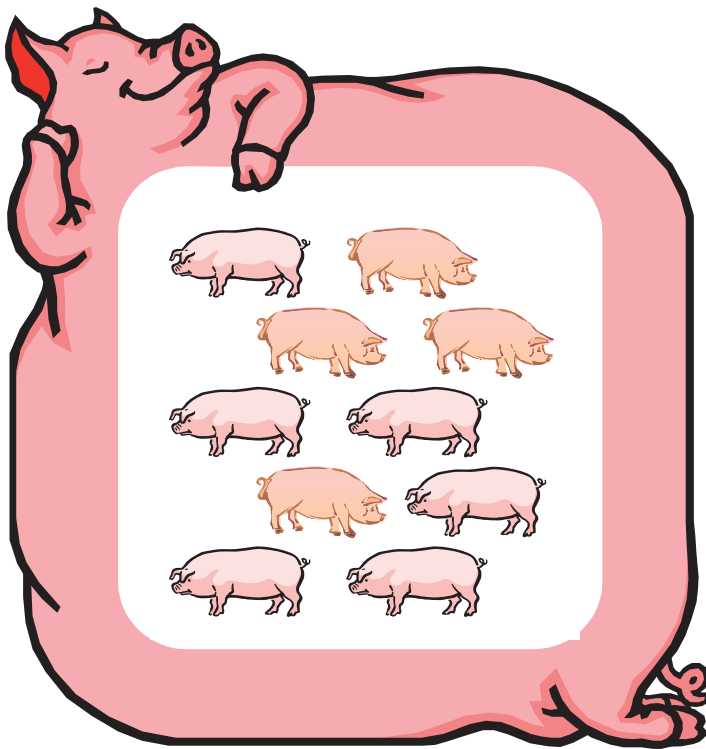


☆☆☆ Counting ☆☆☆

According to the 2017 Census of Agriculture, the total sheep inventory including lambs was 23,399 head and the number of farms raising sheep was 925.



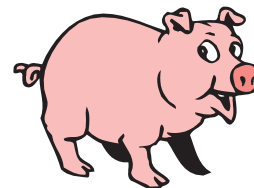
_____ How many **TOTAL** sheep do you see?



SHEEP & PIG JOKES

What did one sheep say to the other sheep?
-“After ewe!”

What do pigs use on their cuts?
-OINKment!

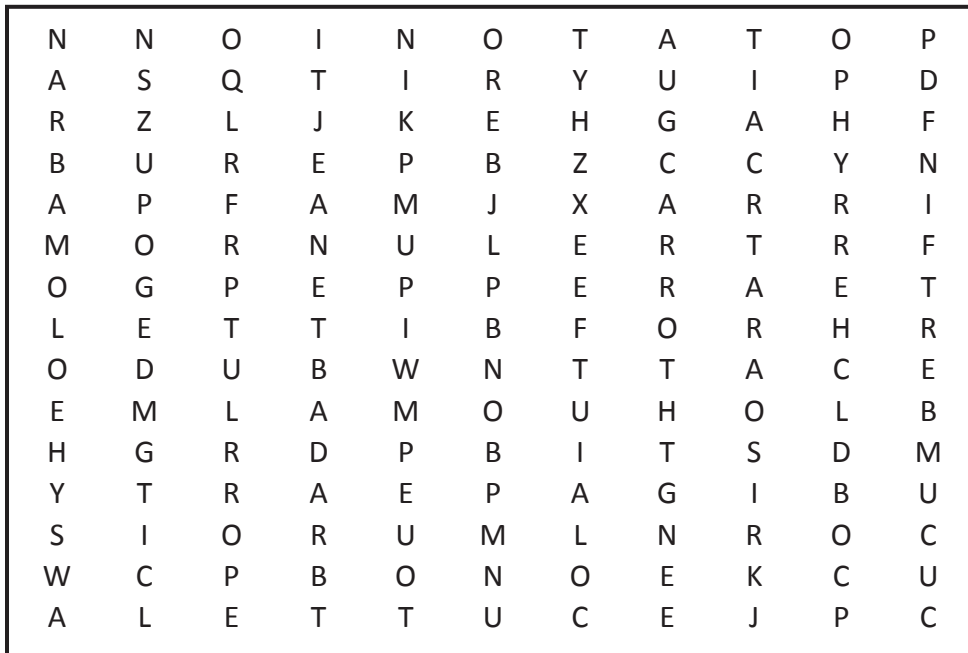


How many **TOTAL** piglets do you see inside of the mommy pig? _____

How many piglets are looking **LEFT**? _____

Maryland’s hog industry accounts for about \$6 million in cash receipts for farmers every year. The total pig crop is nearly 40,000 head with inventory of all hogs and pigs around 18,500.

Fruit and vegetable Word Search



Can you find the following words in the puzzle? Circle each word that you find.

- | | | | | |
|--------|---------|---------|------------|----------|
| APPLE | CARROT | CHERRY | CORN | CUCUMBER |
| GRAPE | LETTUCE | ONION | PEACH | PEAR |
| PEPPER | POTATO | PUMPKIN | STRAWBERRY | TOMATO |

According to the 2017 Census of Agriculture, Maryland vegetables total 29,339 acres in the state with sweet corn leading the way with over 8,000 acres, followed by watermelon at over 3,700 acres and snap beans at over 3,100 acres. Fruit acreage comes in at nearly 4,200 acres with apples leading the way with nearly 1,800 acres. Grape acreage has increased to nearly 1,200 in 2017 from nearly 700 acres in 2012. Maryland has almost every fruit and vegetable in the Census.



HOMOPHONES



Homophones/homonyms are words that are pronounced the same as another, but are different in meaning, whether spelled the same way or not. For example **doe** (female deer) and **dough** (mixture for baking bread or cake).

Can you complete the sentences with the correct homonyms listed below? Write the word on the line provided. Each word may only be used once.

1. A fable by Aesop, The Tortoise and the _____.



2. _____ covers the human head or is the coat of most mammals.

HAIR

HARE

3. What a beautiful _____ growing in your garden.



4. A finely ground powder of wheat or grain used in baking is _____.

FLOUR

FLOWER

5. The horse _____ in the pasture; the cry of a horse.



6. A voter who is against a view usually _____ a vote.

NEIGHS

NAYS

7. The sister of one's father or mother is an _____.



8. An _____ is a pesky insect typically seen at a picnic.

AUNT

ANT

9. Bugs Bunny is always chewing on a _____.



10. A unit for measuring the purity of gold is a _____.

CARROT

KARAT

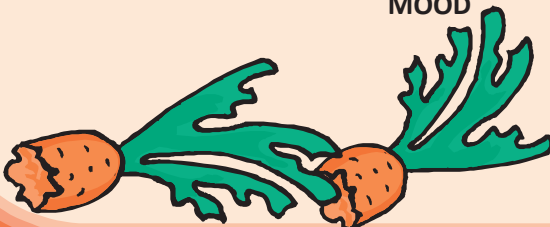
11. The cow _____ a deep, low sound.



12. What is the farmer's _____ today?

MOOD

MOOED



Grow a Flower!



Place in order the steps for growing a flower, by writing the correct letter on the lines provided.



1. _____

Obtain flower seeds.



Step 1- A

2. _____

Watch your plant grow.



Step 2- B

3. _____

Enjoy the flowers.



Step 3- C

4. _____

Water your plant.



Step 4- D

5. _____

Buy a flower pot or find a garden bed.



Step 5- E

6. _____

Dig a hole and plant your seed.



Step 6- F

7. _____

Provide sunlight for your plant.



Step 7- G

Maryland has proven to be a great area to grow nursery, greenhouse, floriculture, and sod, which make up over 9 percent of the total value of agriculture products sold.

• • •
 Roses are red
 Violets are blue
 I love floriculture!
 How about you?
 • • •

Barn Animals Talk

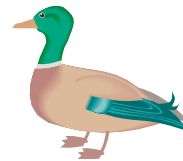
Please write the
correct farm animal
name on each line
provided.



Chicken



Cow



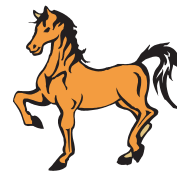
Duck



Goat



Goose



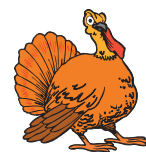
Horse



Pig



Sheep



Turkey

1. The _____ says quack.

2. The _____ says oink.

3. The _____ says neigh.

4. The _____ says cluck.

5. The _____ says baa.

6. The _____ says gobble.

7. The _____ says moo.

8. The _____ says maa.

9. The _____ says honk.

Maryland Trivia Farm Quiz



Please circle the correct answer.

1. What is Maryland's leading agricultural product?

Greenhouse and Nursery

Milk and Dairy Products

Broilers

2. Maryland has approximately how many farms?

6,800

12,000

9,800

3. Approximately how many milk cows are there in Maryland?

50,000

45,000

74,000

4. Which county in Maryland has the most corn acreage harvested for grains?

Worcester

Queen Anne's

Kent

5. Of the following three crops, which has the most acreage harvested in Maryland?

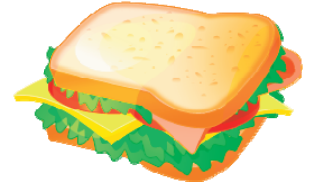
Corn for grain

Wheat

Soybeans



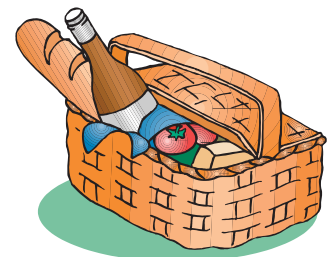
Let's Picnic with Analogies!



Analogies are similarities or comparabilities between two items. For example, bird is to fly as fish is to swim. Complete each analogy by writing the correct word on the blank line.

1. Cow is to milk as egg is to _____
2. Carrot is to vegetable as apple is to _____
3. Ketchup is to tomato as peanut butter is to _____
4. Raisins are to grapes as pickles are to _____
5. Steak is to cow as bacon is to _____
6. Cheese is to milk as bread is to _____
7. Popcorn is to corn as chips is to _____
8. Ham is to pig as roast beef is to _____
9. Pear is to fruit as carrot is to _____
10. Wine is to grape as juice is to _____

pig apple potato cucumbers wheat chicken fruit vegetable peanut cow



SECRET SCRAMBLE!

Unscramble the letters to make a word.



L R A E B Y

--	--	--	--	--	--



E B A T E G E V S L

--	--	--	--	--	--	--	--	--	--

I U F E T L U R C R O L

--	--	--	--	--	--	--	--	--	--	--	--



R I D Y A

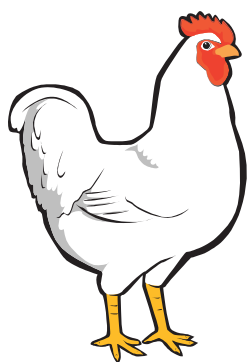
--	--	--	--	--

O T A P E T O S

--	--	--	--	--	--	--	--

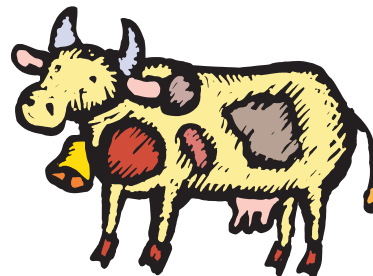
T A L C E T

--	--	--	--	--	--



Y A B E S O S N

--	--	--	--	--	--	--	--



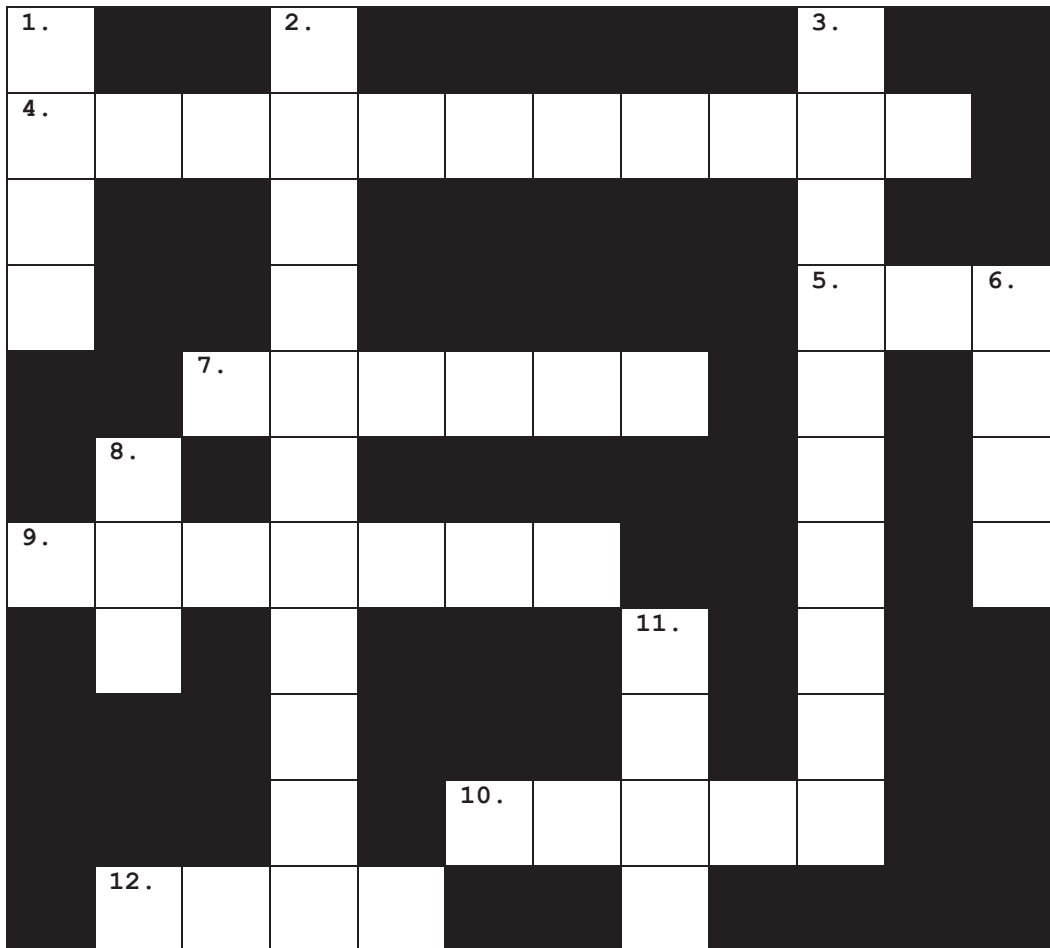
L O R B I E R S

--	--	--	--	--	--	--

Take all the letters in the black boxes and unscramble them to determine where everything you eat comes from.

Agriculture

Word Puzzle



Across

4. The cultivation of aquatic animals and plants;
underwater agriculture
5. Laid by females; this can be scrambled,
hard-boiled, or pickled
7. Fermented hay or feed
9. Fowl valued for their meat and eggs, such as chickens,
turkeys, ducks, and geese
10. A green or purple fruit that grows in clusters, eaten raw
or used for making jam, juice, jelly, wine, etc.
12. _____ on the cob



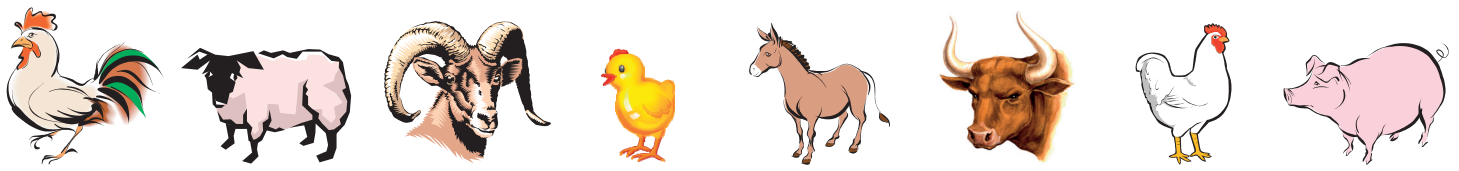
Down

1. Mary had a little _____
2. Vegetable looks similar to broccoli, but has a whitish
head; eaten raw or cooked
3. Temperature controlled structure where flowers and plants
grow
6. Bred for their meat, wool, and milk; related to sheep,
but has a beard and straight horns
8. A mature female _____ produces milk and has a hide
pattern that is black and white
11. A common name for large plant seeds, edible,
typically kidney-shaped

AGRICULTURE WORD SUDOKU

Complete the grid so that every row, column, and 3x3 box contains the letters: A E F G I M N R S in some order. Once the grid is complete, there will be a 7-letter word in a row or column. Can you find it?













I			N	S	M			
						M	E	
M	S	G		A				N
F	I		A		N			
G	N	S				I	A	R
			G		S	N	F	
E				N		S	M	G
	M	F						I
			M	E	I			F



Matching Animals

Match the animal definition in column 1 with the animal in column 2. The items in column 2 may NOT be used more than once.

Column 1

1. young male horse  _____
2. adult female chicken  _____
3. adult female cow  _____
4. young female horse  _____
5. adult male sheep  _____
6. adult female pig  _____
7. young cow or bull  _____
8. adult female horse  _____
9. adult male chicken  _____
10. young pig  _____
11. adult male horse  _____
12. adult female sheep  _____

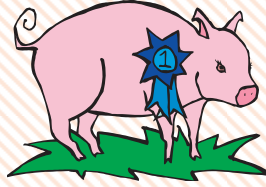
Column 2

- a. rooster
- b. stallion
- c. ewe
- d. sow
- e. ram
- f. mare
- g. colt
- h. calf
- i. piglet
- j. heifer
- k. filly
- l. hen

Welcome to the fair!



There are 24 different words hidden in this word search puzzle that have something to do with fairs. They can be read up, down, forwards, backwards, or diagonally. Circle each word that you find.



E	A	B	D	N	I	S	B	P	M	N	H	E	R
S	S	T	I	B	I	H	X	E	A	W	O	R	E
E	R	Y	P	D	F	K	O	E	J	R	E	T	S
D	A	D	T	S	L	U	G	H	O	Q	N	F	R
I	T	U	R	K	E	Y	L	S	A	E	R	F	O
R	A	C	O	L	S	H	O	V	M	I	Y	A	H
G	O	K	T	E	O	C	B	N	U	L	D	H	I
A	G	H	Z	N	M	R	I	K	R	G	W	K	N
B	O	I	E	V	N	A	L	L	A	M	A	E	U
I	R	Y	C	A	T	F	B	C	B	I	K	N	M
P	X	S	N	R	S	T	B	O	B	C	V	J	B
T	D	B	E	K	O	S	N	W	I	G	H	A	K
P	B	T	F	D	P	K	S	H	T	U	R	P	D
I	N	C	A	J	Y	L	C	M	U	N	S	G	E
E	A	S	N	O	I	T	I	T	E	P	M	O	C
R	F	L	O	W	E	R	S	C	D	R	W	Y	O
Z	Q	E	W	A	B	T	R	A	C	T	O	R	L



Barn
Entertainment
Hay
Prizes

Chicken
Exhibits
Honey
Rabbit

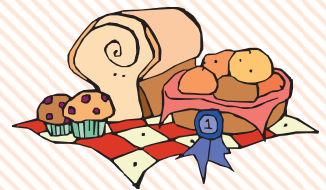
Competitions
Fence
Horse
Rides



Cow
FFA
Jam
Sheep

Crafts
Flowers
Llama
Tractor

Duck
Goat
Pie
Turkey





Taking A Survey

The Maryland Agricultural Statistics Service counts livestock and crops. Can you count the animals and crops on the map? Write the correct number on the lines provided below.

1. How many apples do you see? _____



2. How many chickens do you see? _____



3. How many ears of corn do you see? _____



4. How many cows do you see? _____



5. How many horses do you see? _____



6. How many peaches do you see? _____



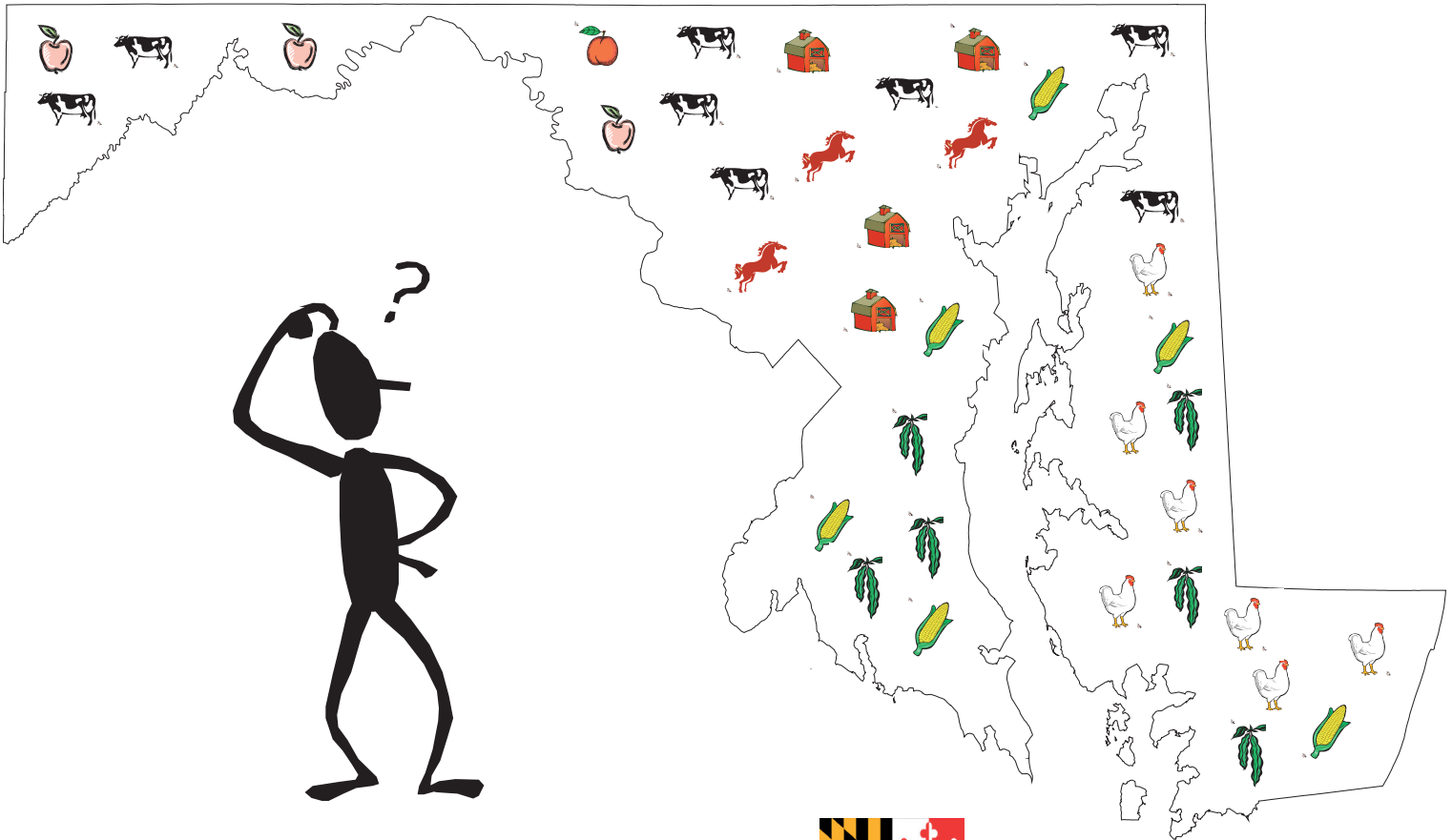
7. How many soybeans do you see? _____



8. How many barns do you see? _____



Maryland Agricultural Map



Do you know what agriculture is in your county?

Did you know that Maryland has agriculture in **ALL 23** counties. The leading county in corn and soybean production is **Queen Anne's**. **Kent County** is ranked first in wheat production and Barley production is ranked first in **Caroline County**. The leading county in milk production and Maryland's all hay production is **Frederick County**.

ANSWER KEY:

Got Smarts?: Quiz

- | | |
|-----------|-----------|
| 1.) True | 5.) True |
| 2.) False | 6.) True |
| 3.) True | 7.) False |
| 4.) False | 8.) True |

Word Search

N	C	R	E	T	T	U	B	○	○
I	A	○	○	○	○	○	○	○	K
E	L	○	○	○	○	○	○	L	○
T	C	A	Y	R	S	H	I	R	E
S	I	○	○	○	○	M	○	○	○
L	U	○	D	U	C	○	○	○	S
O	M	○	○	○	H	○	○	S	○
H	Y	E	S	R	E	J	I	○	Y
○	○	○	○	○	E	W	C	○	E
Y	R	I	A	D	S	○	E	○	S
○	○	○	○	N	E	○	C	○	N
○	○	C	W	○	○	○	R	○	R
○	○	O	A	U	D	D	E	R	E
○	R	W	○	L	○	○	A	○	U
B	○	S	○	○	F	○	M	○	G

Can You Spot it?: Which cow is different?
Row 3, 3rd cow

Farm Scramble

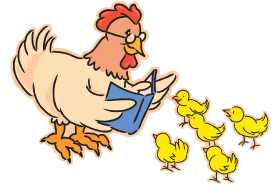
- | | |
|-------------|-------------|
| 1.) crops | 6.) farmer |
| 2.) barn | 7.) tractor |
| 3.) fence | 8.) wheat |
| 4.) soybean | 9.) apple |
| 5.) chicken | 10.) hay |

Fruit or Vegetable?

Circle: strawberry, apple, pumpkin, grapes, tomato, eggplant, pears, peach, cherries, peppers
Square: carrots, potato, lettuce, broccoli, onions, radishes

Who Am I?

- | | |
|-----------|-------------|
| 1.) pig | 5.) sheep |
| 2.) sheep | 6.) horse |
| 3.) pig | 7.) chicken |
| 4.) cow | |



Connect the Dots

A barn

Egg-xiting Problem Solving

- 1.) 7 2.) 3 3.) 6 4.) 10

“Chick” this out!: Which chicken is different?

Row 3, 9th chicken

Counting

Sheep Pig
4 - total 10 - total & 6 - looking left

Fruit and Vegetable Word Search

+	N	O	I	N	O	T	A	T	O	P	
+	+	+	+	I	+	+	+	+	+	+	
+	+	+	+	K	E	+	+	+	H	+	
+	+	+	+	P	+	+	C	C	Y	+	
+	+	+	A	M	+	+	A	R	R	+	
+	+	R	+	U	+	E	R	+	R	+	
+	G	P	E	P	P	E	R	+	E	+	
+	+	+	+	+	B	+	O	+	H	R	
+	+	+	+	W	+	+	T	+	C	E	
+	+	+	A	+	+	+	+	O	+	B	
+	+	R	+	P	+	+	T	+	+	M	
+	T	R	A	E	P	A	+	+	+	U	
S	+	+	+	+	M	L	N	R	O	C	
+	+	+	+	+	O	+	+	E	+	+	U
+	L	E	T	T	U	C	E	+	+	C	

Homophones

- | | | | |
|------------|------------|-------------|-----------|
| 1.) hare | 2.) hair | 3.) flower | 4.) flour |
| 5.) neighs | 6.) nays | 7.) aunt | 8.) ant |
| 9.) carrot | 10.) karat | 11.) moored | 12.) mood |

ANSWER KEY

(continued)

Grow a Flower!

- 1.) B 2.) F 3.) G
4.) D 5.) A 6.) C 7.) E

Barn Animals Talk

- 1.) duck 2.) pig 3.) horse
4.) chicken 5.) sheep 6.) turkey
7.) cow 8.) goat 9.) goose

Maryland Trivia Farm Quiz

- 1.) broilers
2.) 12,000
3.) 45,000
4.) Queen Anne's
5.) Corn for Grain

Let's Picnic with Analogies!

- 1.) chicken 6.) wheat
2.) fruit 7.) potatoes
3.) peanut 8.) cow
4.) cucumbers 9.) vegetable
5.) pig 10.) apple

Secret Scramble

barley, vegetables, floriculture, dairy,
potatoes, cattle, soybeans, broilers, agriculture



**Welcome
to
the fair!**

Matching Animals

- 1.) g 2.) l 3.) j 4.) k
5.) e 6.) d 7.) h 8.) f
9.) a 10.) i 11.) b 12.) c

Taking A Survey

- 1.) 3 5.) 3
2.) 7 6.) 1
3.) 6 7.) 6
4.) 8 8.) 4

Agriculture Word Puzzle

L			C						G		
A	Q	U	A	C	U	L	T	U	R		
M			U						E		
B			L						E	G	G
		S	I	L	A	G	E		N		O
	C		F						H		A
P	O	U	L	T	R	Y			O		T
	W		O				B		U		
			W				E		S		
			E		G	R	A	P	E		
	C	O	R	N			N				

**Agriculture
Word
Sudoku**

I	F	E	N	S	M	R	G	A
N	A	R	I	F	G	M	E	S
M	S	G	R	A	E	F	I	N
F	I	M	A	R	N	G	S	E
G	N	S	E	M	F	I	A	R
R	E	A	G	I	S	N	F	M
E	R	I	F	N	A	S	M	G
A	M	F	S	G	R	E	N	I
S	G	N	M	E	I	A	R	F

								P	M					
S	S	T	I	B	I	H	X	E	A					E
E								E	J				T	S
D		D						H			N	F	R	
I	T	U	R	K	E	Y		S		E		F	O	
R	A	C			S	H			M		Y	A	H	
	O	K		E	O	C		N						
	G		Z	N		R	I		R					N
		I	E			A	L	L	A	M	A	E		
	R	Y	C		T	F		C	B		K			
P			N	R		T		O	B	C				B
			E			S		W	I			A		
P		T	F					H	T		R			
I	N	C	A	J	Y	L	C	M	U	N	S	G		
E		S	N	O	I	T	I	T	E	P	M	O	C	
	F	L	O	W	E	R	S							
						T	R	A	C	T	O	R		



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**United States Department of Agriculture
National Agricultural Statistics Service
Northeastern Region
Maryland Field Office**



Junior Ag Stats:

We hope you enjoyed the Farm Fun Activity workbook. We are proud of Maryland's agriculture. We are grateful to our Maryland farmers and their families for the food they produce. They provide delicious meats, fresh fruits and vegetables, and wholesome milk for us to enjoy every day!

We are also grateful to them for completing our surveys throughout the year. This is how we gather our information and statistics about agriculture. Many people learn from the important statistics like.....



THE FARMERS, THEMSELVES



MAGAZINES, NEWSPAPERS AND RADIO



FARM BUSINESSES



FARM ASSOCIATIONS



BANKS AND LENDERS



SCHOOLS AND UNIVERSITIES



FARM COOPERATIVES



GOVERNMENT AGENCIES



LEGISLATURES

We hope you have learned a lot about agriculture and all it has to offer.
Maryland agriculture is a very important part of our daily lives!